CLAIMS

What is claimed is:

l	1. A method for identifying an encoding type associated with a central office codec in
2	a digital data communication system, said method comprising the steps of:
3	obtaining a set of transmission levels generated in accordance with an encoding scheme
4	utilized by said central office codec;
5	selecting a plurality of transmission levels from said set of transmission levels; and
6	analyzing said plurality of transmission levels to determine whether characteristics of said
7	plurality of transmission levels correspond to a specific encoding type.

- 2. A method according to claim 1, wherein each transmission level contained in said set of transmission levels is associated with a codeword utilized by said encoding scheme.
- 3. A method according to claim 1, wherein said analyzing step analyzes said plurality of transmission levels to determine whether characteristics of said plurality of transmission levels correspond to a μ -law encoding type or an A-law encoding type.
- 4. A method according to claim 1, wherein each transmission level contained in said set of transmission levels is an estimated transmission level corresponding to a μ -law level transmitted from said central office codec.
- 5. A method according to claim 1, wherein each transmission level contained in said set of transmission levels is an estimated transmission level corresponding to an A-law level transmitted from said central office codec.

1	6. A method for identifying an encoding type associated with a central office codec in
2	a digital data communication system, said central office codec being compliant with ITU-T
3	Recommendation G.711, said method comprising the steps of:
4	obtaining a plurality of transmission levels generated in accordance with an encoding scheme
5	utilized by said central office codec, each of said transmission levels being designated by a segment
6	index and a subindex associated with said segment index;
7	selecting a first level designated by a first segment index and a subindex;
8	choosing a second level designated by a second segment index and said subindex;
9	calculating a difference based on said first and second levels; and
10	identifying an encoding type of said central office codec in response to said calculating step.
	7. A method according to claim 6, wherein said identifying step identifies whether said
	encoding type of said central office codec is μ -law or A-law.
1	8. A method according to claim 6, wherein:

A method according to claim 6, wherein:

said selecting step selects said first level, where said first level is designated by segment index N and subindex i;

said choosing step chooses said second level, where said second level is designated by segment index (N + M) and subindex i;

said calculating step comprises the step of multiplying said first level by 2^{M} to obtain a scaled level; and

said calculating step calculates said difference based on said scaled level and said second level.

A method according to claim 6, further comprising the step of comparing said 9. difference to a threshold, wherein said identifying step is responsive to said comparing step.

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1	10. A method according to claim 9, wherein:
2	said identifying step identifies that said encoding type is of a first type when said difference
3	is less than said threshold;
4	said method further comprises the step of comparing said difference to a second threshold;
5	and
6	said identifying step identifies that said encoding type is of a first type when said difference
7	is greater than said second threshold.
	11. A method according to claim 9, wherein:
	said identifying step identifies that said encoding type is of a first type when said difference
	is greater than said threshold; and
	said identifying step identifies that said encoding type is of a second type when said
	difference is less than said threshold.
1	12. A method according to claim 6, wherein:
2	said method further comprises the step of repeating said selecting, choosing, and calculating
3	steps for a plurality of corresponding first and second levels;
4	each iteration of said calculating step calculates an individual difference;
5	said method further comprises the step of generating an accumulated difference associated
6	with a plurality of individual differences; and
7	said identifying step identifies said encoding type of said central office codec in response to
8	said accumulated difference.

13.

Recommendation G.711, said system comprising:

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a digital data communication system, said central office codec being compliant with ITU-T

A system for identifying an encoding type associated with a central office codec in

a database configured to store a set of transmission levels generated in accordance with an
encoding scheme utilized by said central office codec;
a level selector configured to obtain a plurality of transmission levels from said set of
transmission levels; and
a codec type identifier configured to identify a specific encoding type of said central office
codec in response to a comparison based upon said plurality of transmission levels.
14. A system according to claim 13, further comprising a level estimator for producing said set of transmission levels in response to a corresponding set of codewords utilized by said
encoding scheme.
15. A system according to claim 13, wherein said codec type identifier is configured to identify whether said specific encoding type is μ -law or A-law.
16. A system according to claim 13, wherein:
said level selector is configured to select a first level designated by a first segment index and
a subindex, and to select a second level designated by a second segment index and said subindex;
said system further comprises a difference generator that calculates a difference based on said
first and second levels; and
said codec type identifier identifies said specific encoding type in response to said difference.
17. A system according to claim 16, wherein:
said first level is designated by segment index N and subindex i ;
said second level is designated by segment index $(N + M)$ and subindex i ;
said difference generator is configured to multiply said first level by 2 ^M to obtain a scaled
level and to calculate said difference based on said scaled level and said second level.

18. A system according to claim 16, further comprising a difference accumulator configured to accumulate a number of individual differences generated by said difference generator in response to number of first and second levels.

19. A system according to claim 16, wherein said codec type identifier is further configured to perform a comparison of said difference to a threshold, and to identify said specific encoding type in response to said comparison.

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